

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031317\  
 Data File : BF093646.D  
 Acq On : 14 Mar 2017 9:25  
 Operator : SJ/MA  
 Sample : I2201-22  
 Misc :  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D-123

Quant Time: Mar 15 02:29:59 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 13 15:05:08 2017  
 Response via : Initial Calibration

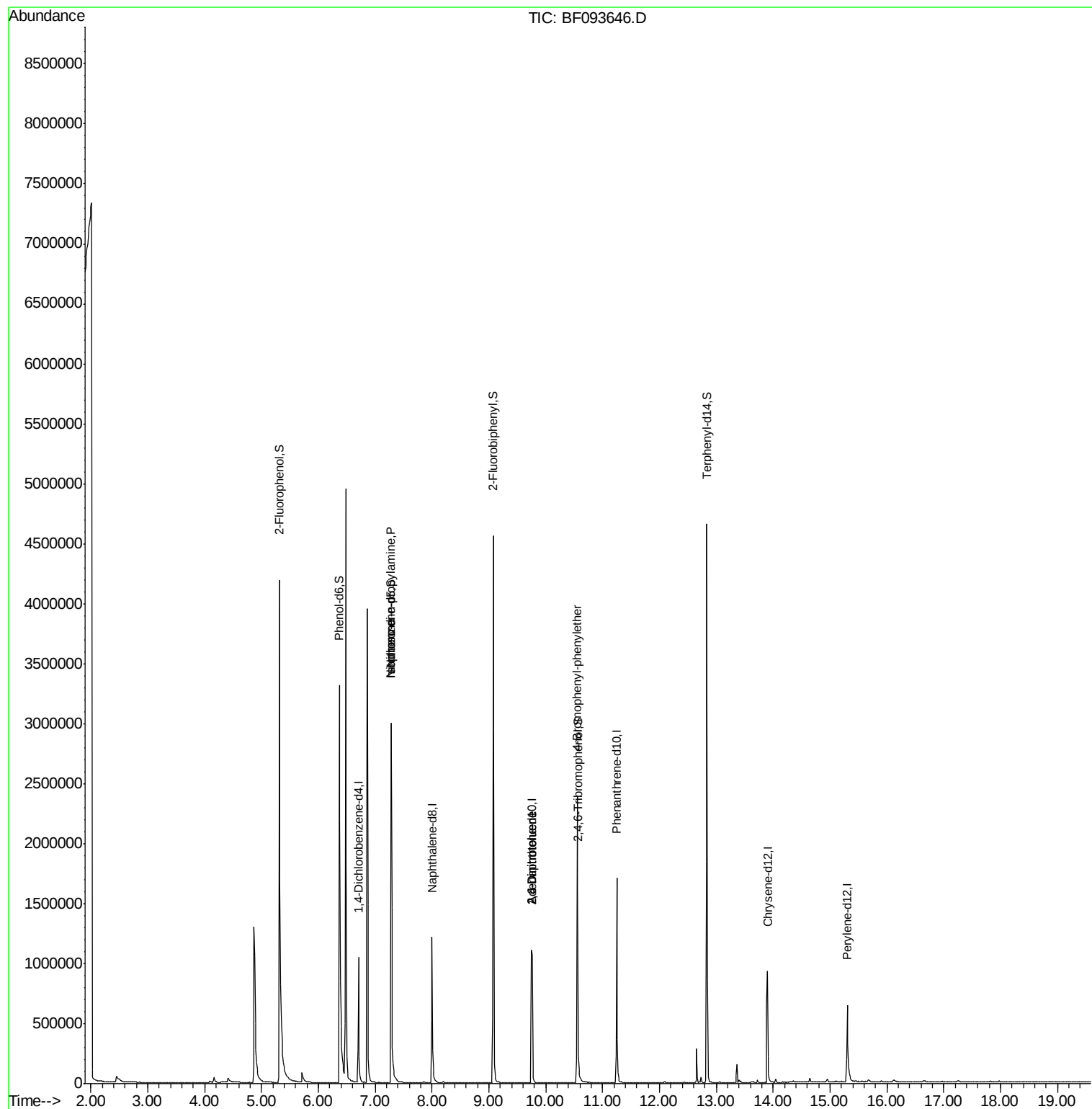
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.71  | 152  | 178647   | 20.00     | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.00  | 136  | 726600   | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.75  | 164  | 342653   | 20.00     | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.25 | 188  | 669931   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 13.90 | 240  | 488421   | 20.00     | ng    | 0.01     |
| 86) Perylene-d12               | 15.31 | 264  | 342948   | 20.00     | ng    | 0.02     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.32  | 112  | 1637749  | 152.58    | ng    | 0.00     |
| 7) Phenol-d6                   | 6.37  | 99   | 1971383  | 145.64    | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.28  | 82   | 1244566  | 95.04     | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.56 | 330  | 405324   | 181.56    | ng    | 0.01     |
| 44) 2-Fluorobiphenyl           | 9.08  | 172  | 1979802  | 107.47    | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.84 | 244  | 1647966  | 87.72     | ng    | 0.01     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.37  | 77   | 2112     | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propylamine | 7.28  | 70   | 162920   | 17.51     | ng    | # 83     |
| 25) Isophorone                 | 7.28  | 82   | 1222684  | 46.30     | ng    | # 65     |
| 50) 2,6-Dinitrotoluene         | 9.75  | 165  | 42420    | 8.51      | ng    | # 31     |
| 56) 2,4-Dinitrotoluene         | 9.75  | 165  | 42421    | 6.93      | ng    | # 20     |
| 66) 4-Bromophenyl-phenylether  | 10.55 | 248  | 28328    | 4.00      | ng    | # 1      |

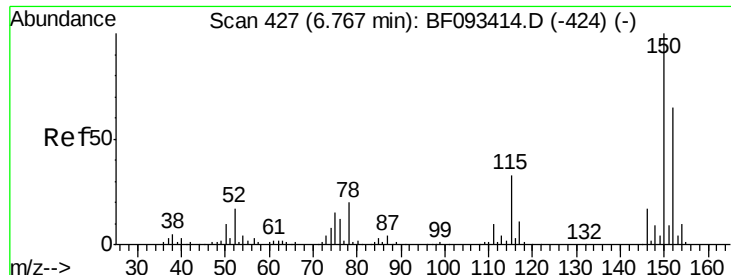
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.71 min Scan# 422

Delta R.T. -0.01 min

Lab File: BF093646.D

Acq: 14 Mar 2017 9:25

Instrument :

BNA\_M

ClientSampleId :

D-123

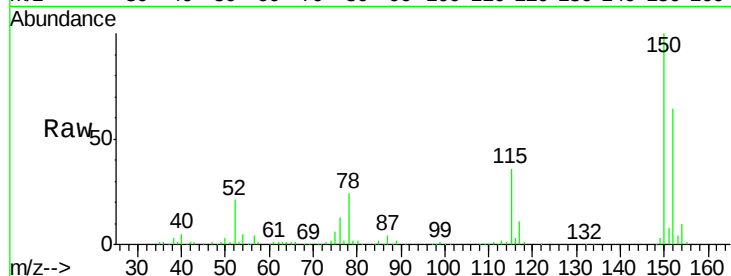
Tot Ion:152 Resp: 178647

Ion Ratio Lower Upper

152 100

150 157.3 124.9 187.3

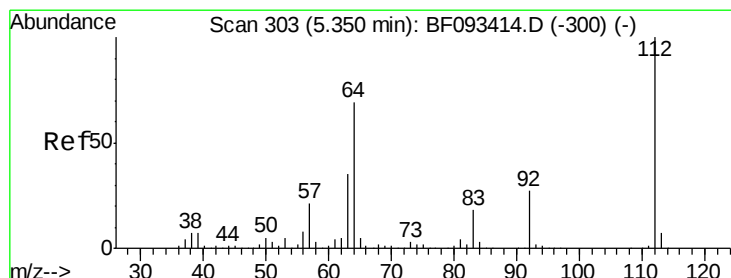
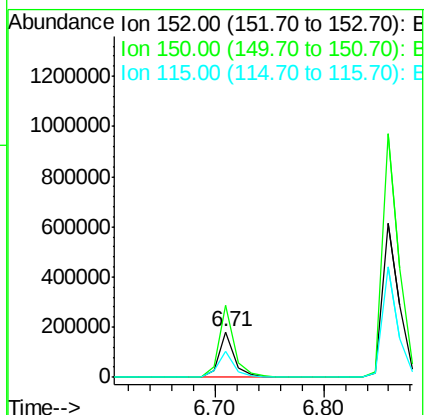
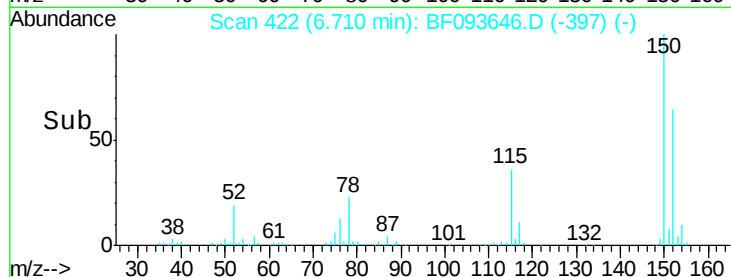
115 57.3 46.0 69.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 152.58 ng

RT: 5.32 min Scan# 300

Delta R.T. 0.00 min

Lab File: BF093646.D

Acq: 14 Mar 2017 9:25

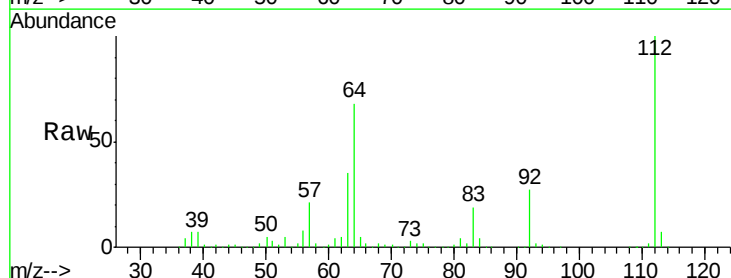
Tgt Ion:112 Resp: 1637749

Ion Ratio Lower Upper

112 100

64 67.8 46.1 69.1

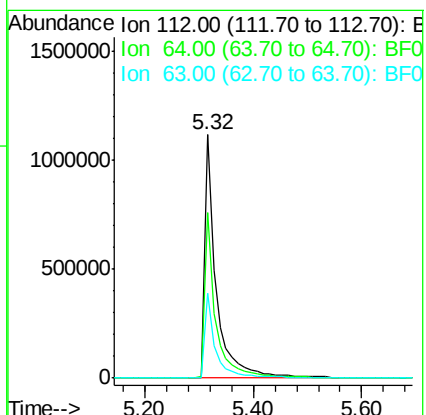
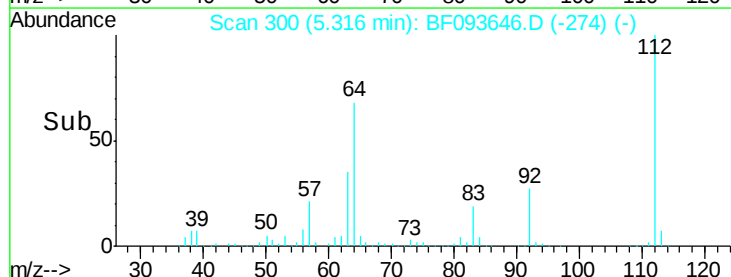
63 34.8 23.8 35.6

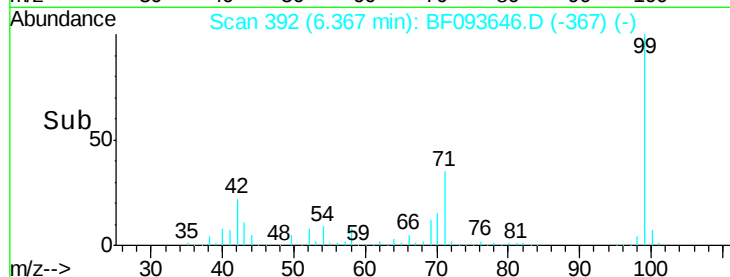
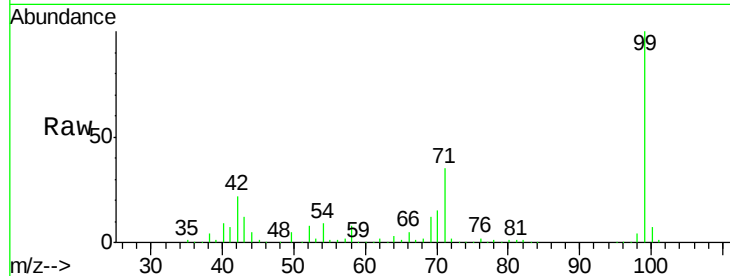
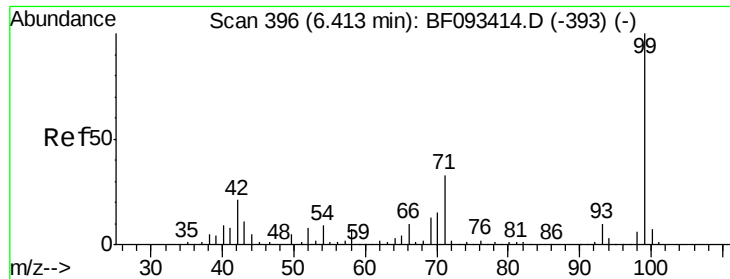


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 145.64 ng

RT: 6.37 min Scan# 392

Delta R.T. -0.01 min

Lab File: BF093646.D

Acq: 14 Mar 2017 9:25

Instrument :

BNA\_M

ClientSampled :

D-123

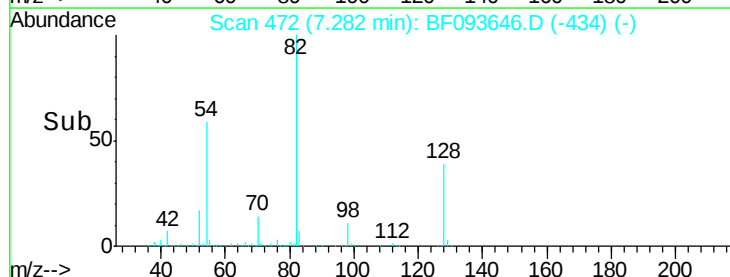
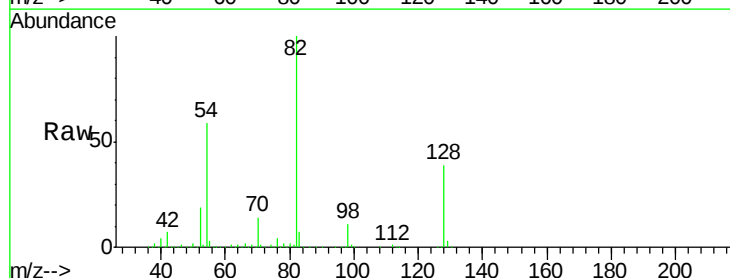
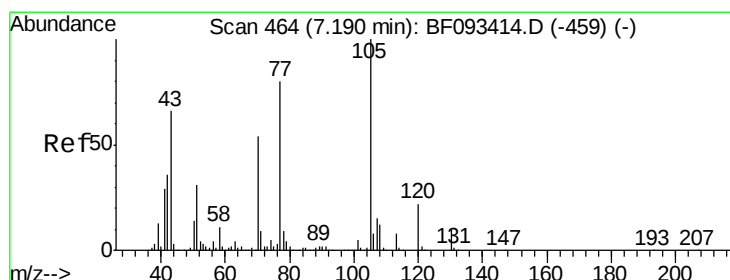
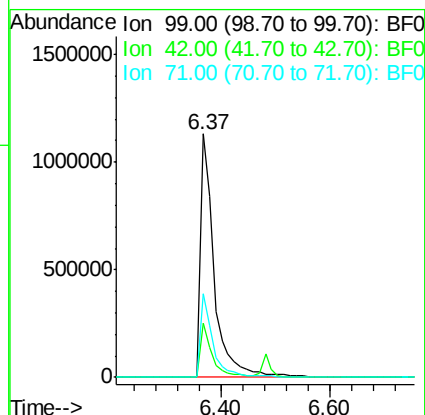
Tot Ion: 99 Resp: 1971383

Ion Ratio Lower Upper

99 100

42 22.3 15.6 23.4

71 34.6 27.5 41.3



#19

n-Nitroso-di-n-propylamine

Concen: 17.51 ng

RT: 7.28 min Scan# 472

Delta R.T. 0.14 min

Lab File: BF093646.D

Acq: 14 Mar 2017 9:25

Tgt Ion: 70 Resp: 162920

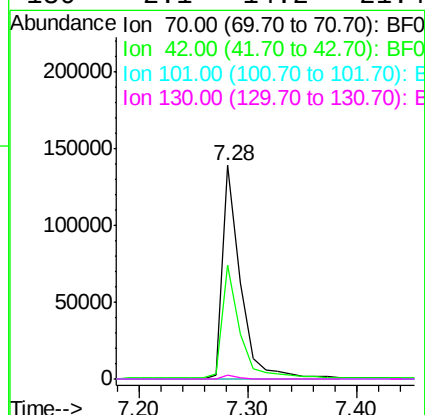
Ion Ratio Lower Upper

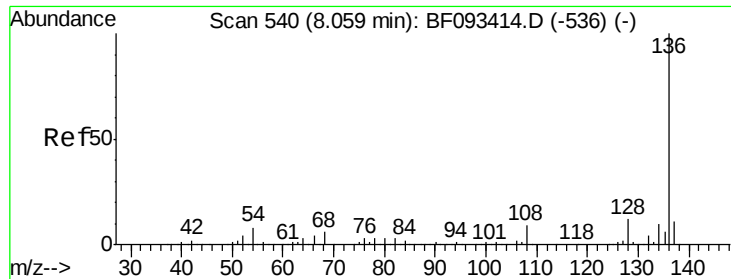
70 100

42 53.5 49.4 74.0

101 0.0 7.4 11.2#

130 2.1 14.2 21.4#

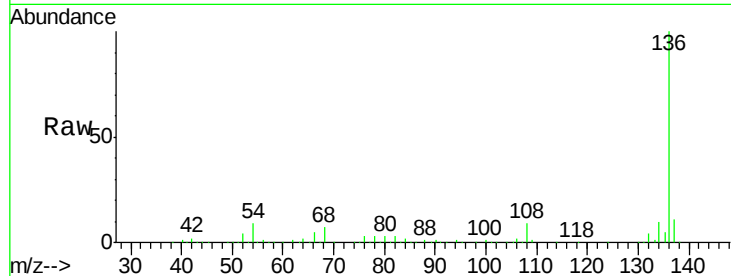




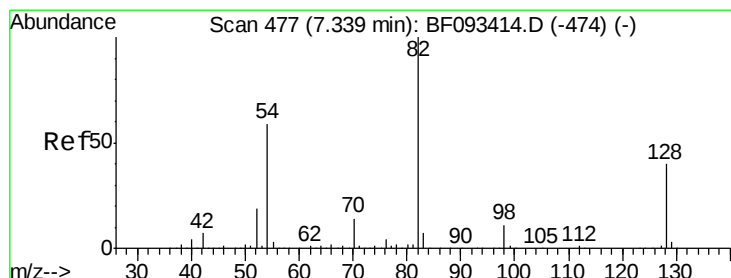
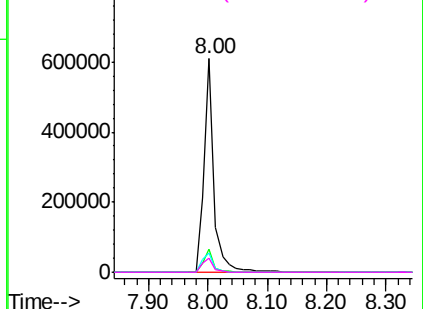
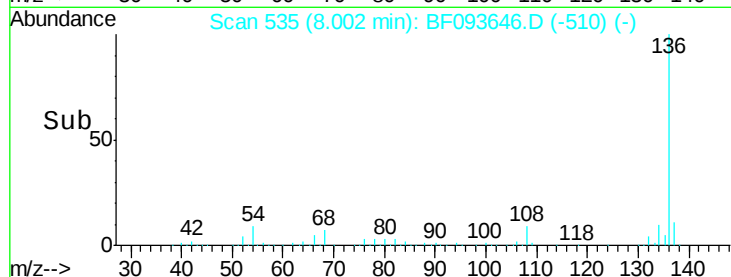
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.00 min Scan# 535  
Delta R.T. -0.01 min  
Lab File: BF093646.D  
Acq: 14 Mar 2017 9:25

Instrument :  
BNA\_M  
ClientSampleID :  
D-123

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 726600   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.9  | 8.4 12.6 |
| 54          | 8.7   | 4.5 6.7# |
| 68          | 6.6   | 3.6 5.4# |

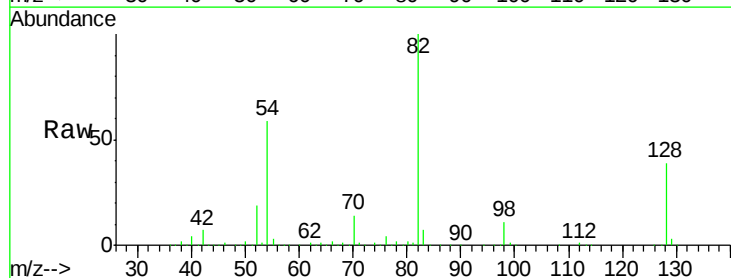


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

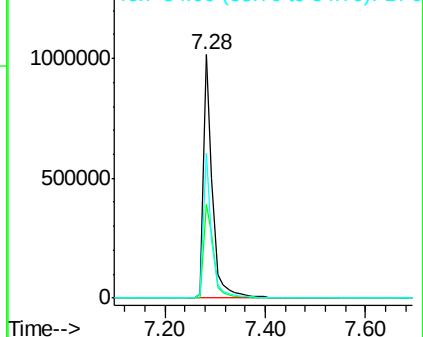
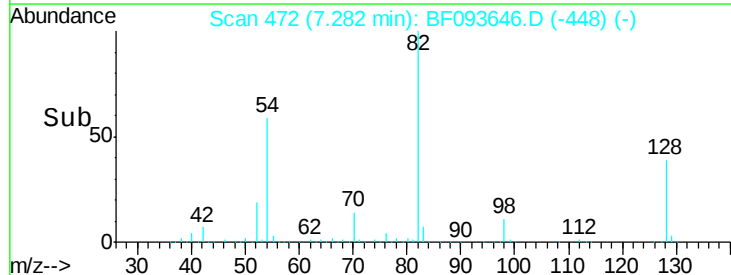


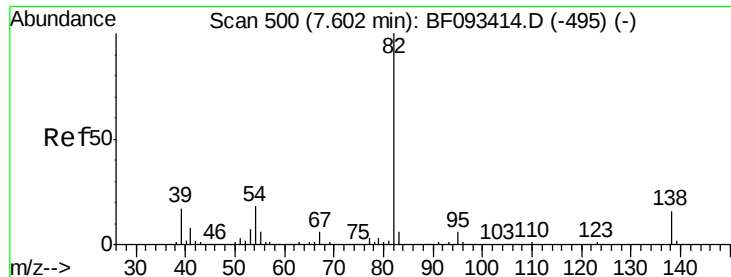
#23  
Nitrobenzene-d5  
Concen: 95.04 ng  
RT: 7.28 min Scan# 472  
Delta R.T. -0.02 min  
Lab File: BF093646.D  
Acq: 14 Mar 2017 9:25

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 1244566    |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 38.7  | 34.6 52.0  |
| 54          | 59.4  | 39.5 59.3# |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 46.30 ng

RT: 7.28 min Scan# 472

Delta R.T. -0.27 min

Lab File: BF093646.D

Acq: 14 Mar 2017 9:25

Instrument :

BNA\_M

ClientSampleID :

D-123

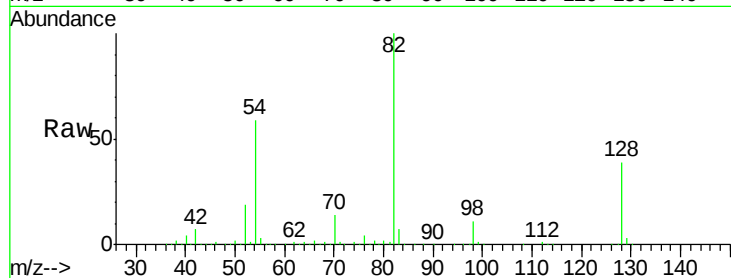
Tot Ion: 82 Resp: 1222684

Ion Ratio Lower Upper

82 100

95 0.0 5.6 8.4#

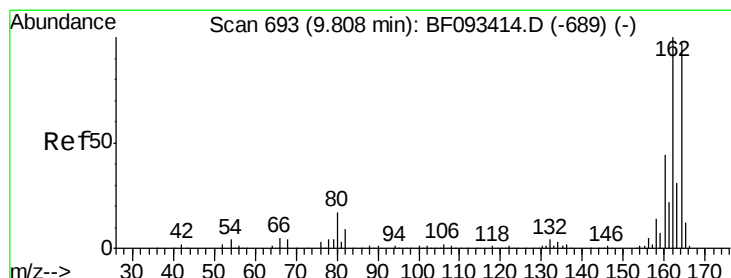
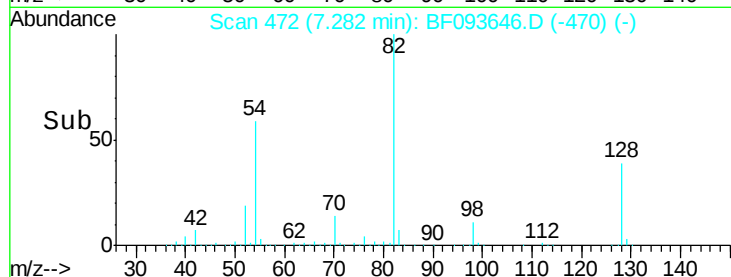
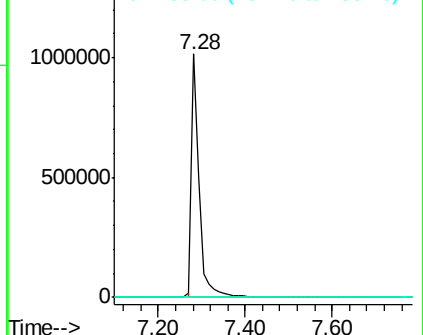
138 0.0 14.6 22.0#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.75 min Scan# 688

Delta R.T. -0.01 min

Lab File: BF093646.D

Acq: 14 Mar 2017 9:25

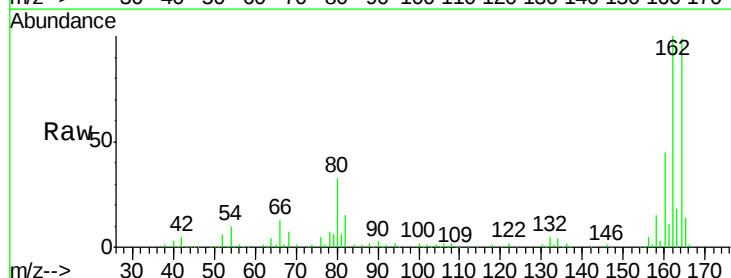
Tgt Ion:164 Resp: 342653

Ion Ratio Lower Upper

164 100

162 100.9 80.2 120.2

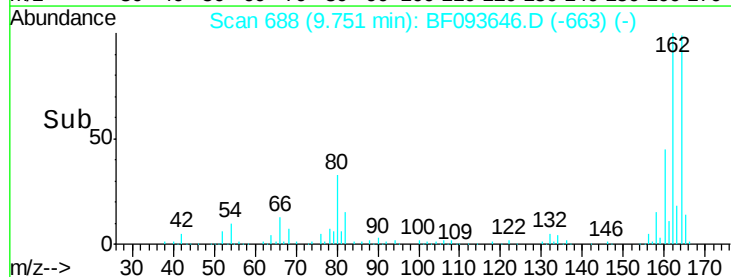
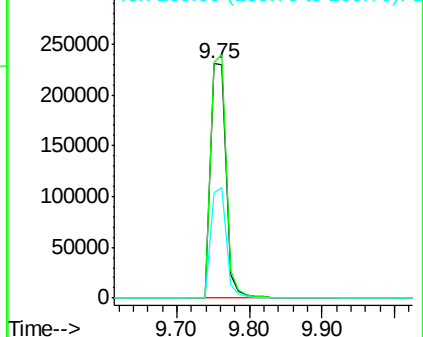
160 45.0 36.9 55.3

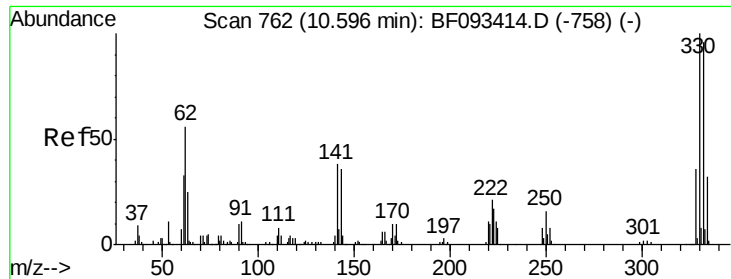


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

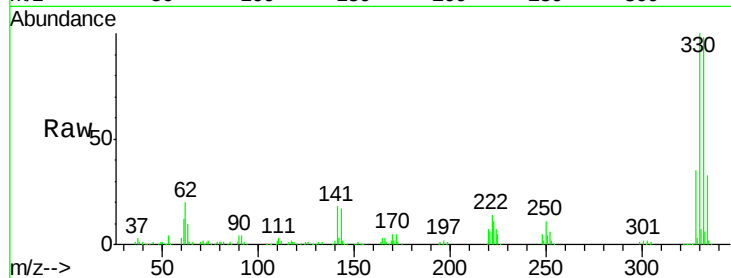




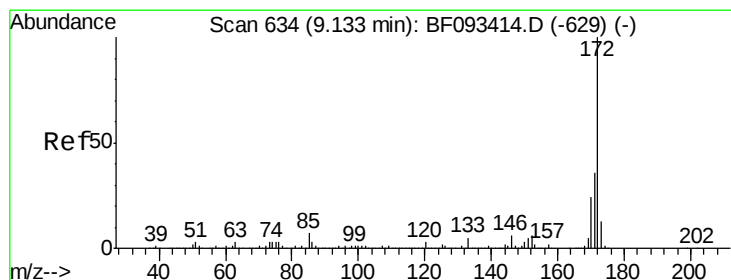
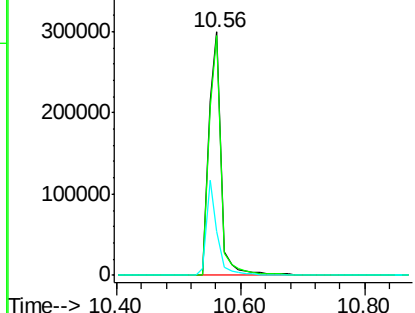
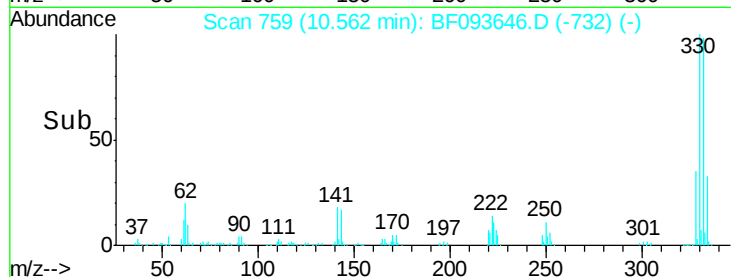
#41  
 2,4,6-Tribromophenol  
 Concen: 181.56 ng  
 RT: 10.56 min Scan# 759  
 Delta R.T. 0.01 min  
 Lab File: BF093646.D  
 Acq: 14 Mar 2017 9:25

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D-123

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.7  | 77.4  | 116.2 |
| 141     | 34.7  | 34.1  | 51.1  |

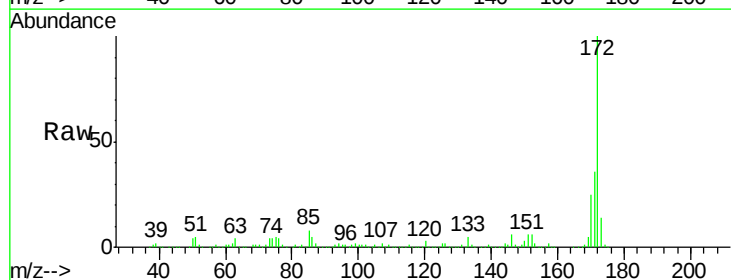


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

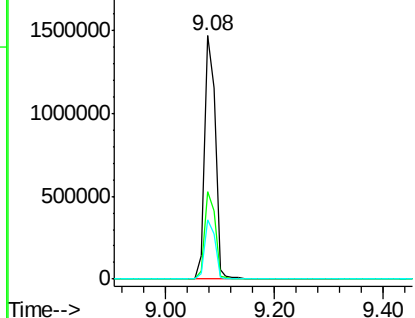
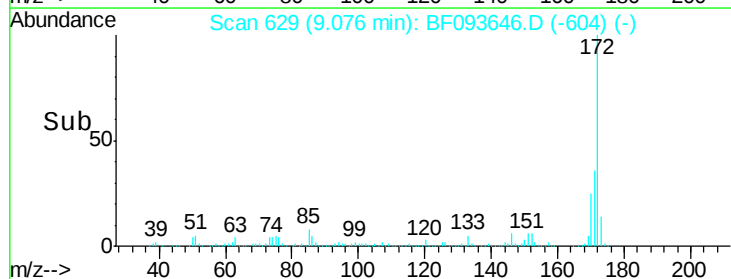


#44  
 2-Fluorobiphenyl  
 Concen: 107.47 ng  
 RT: 9.08 min Scan# 629  
 Delta R.T. -0.01 min  
 Lab File: BF093646.D  
 Acq: 14 Mar 2017 9:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 29.4  | 44.0  |
| 170     | 24.6  | 20.2  | 30.4  |



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





#50

2,6-Dinitrotoluene

Concen: 8.51 ng

RT: 9.75 min Scan# 688

Delta R.T. 0.18 min

Lab File: BF093646.D

Acq: 14 Mar 2017 9:25

Instrument :

BNA\_M

ClientSampleId :

D-123

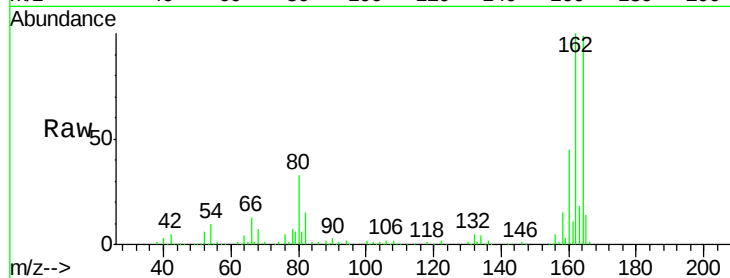
Tot Ion:165 Resp: 42420

Ion Ratio Lower Upper

165 100

63 1.7 36.2 54.4#

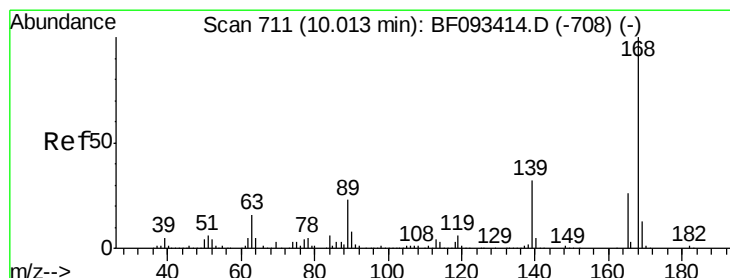
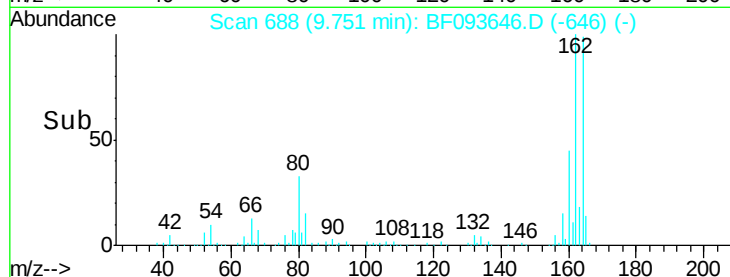
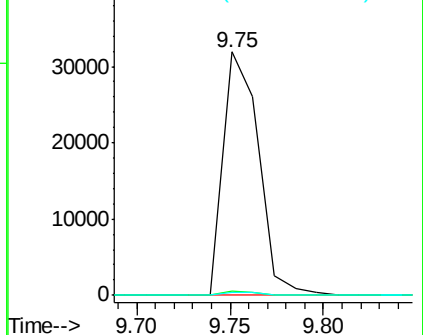
89 1.3 40.2 60.4#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#56

2,4-Dinitrotoluene

Concen: 6.93 ng

RT: 9.75 min Scan# 688

Delta R.T. -0.23 min

Lab File: BF093646.D

Acq: 14 Mar 2017 9:25

Tgt Ion:165 Resp: 42421

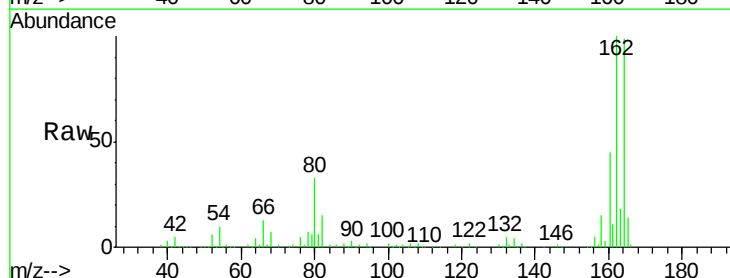
Ion Ratio Lower Upper

165 100

63 1.7 40.2 60.4#

89 1.3 62.5 93.7#

182 0.0 1.8 2.8#

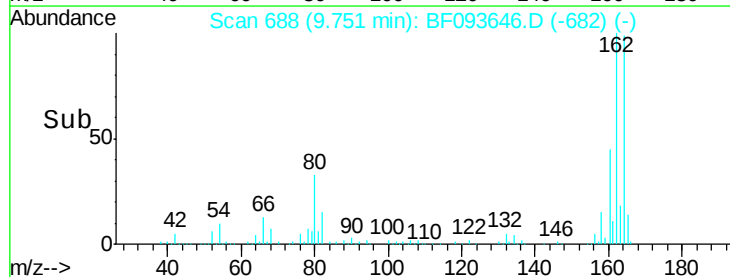
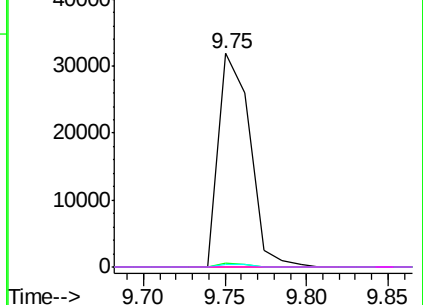


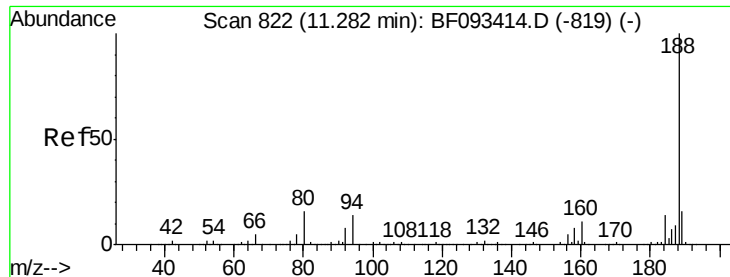
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

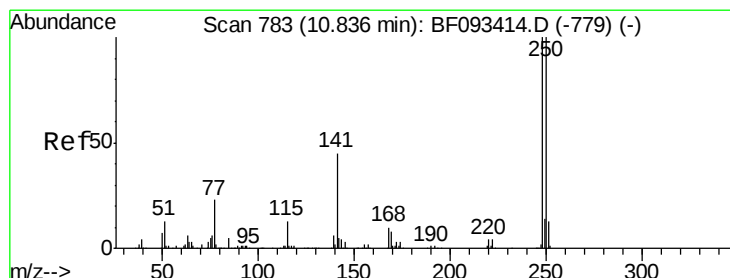
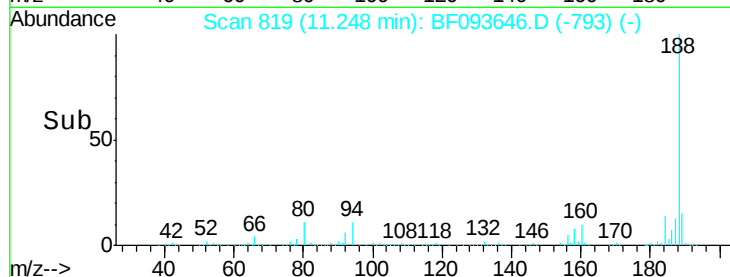
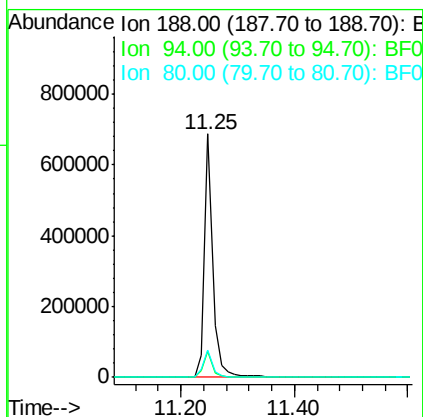
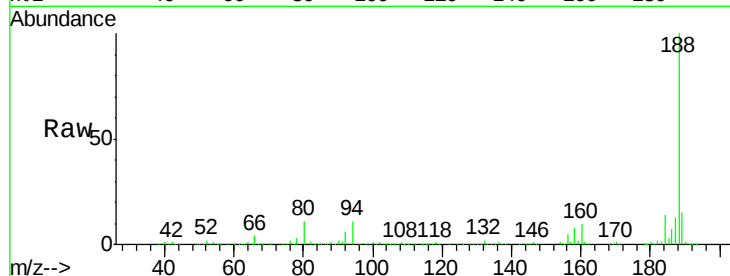




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.25 min Scan# 819  
Delta R.T. 0.00 min  
Lab File: BF093646.D  
Acq: 14 Mar 2017 9:25

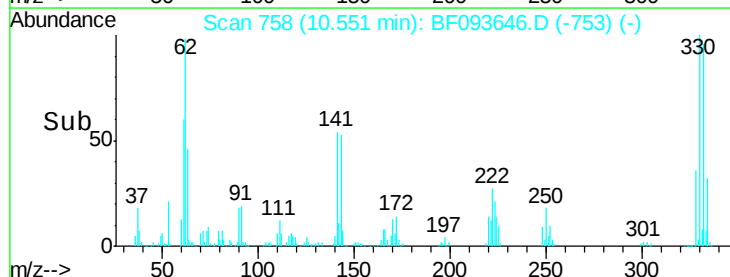
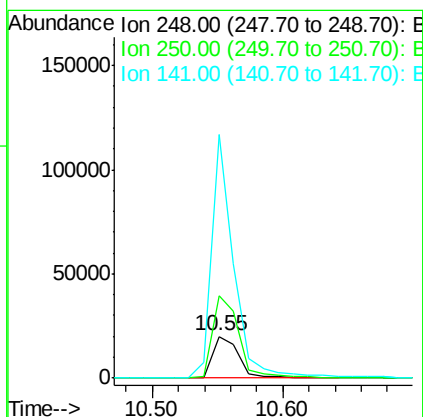
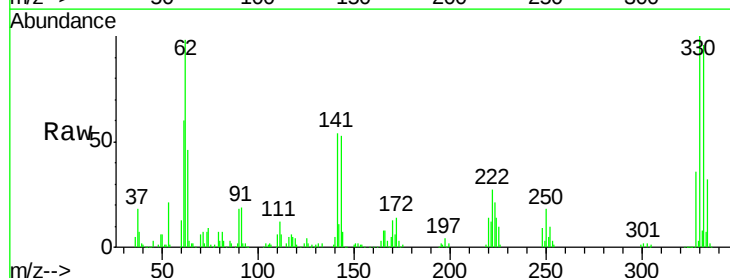
Instrument :  
BNA\_M  
ClientSampleId :  
D-123

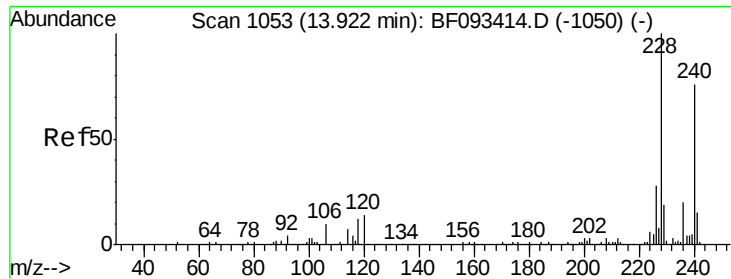
Tot Ion:188 Resp: 669931  
Ion Ratio Lower Upper  
188 100  
94 10.7 10.0 15.0  
80 11.3 11.2 16.8



#66  
4-Bromophenyl-phenylether  
Concen: 4.00 ng  
RT: 10.55 min Scan# 758  
Delta R.T. -0.24 min  
Lab File: BF093646.D  
Acq: 14 Mar 2017 9:25

Tgt Ion:248 Resp: 28328  
Ion Ratio Lower Upper  
248 100  
250 195.0 76.9 115.3#  
141 579.8 68.2 102.4#





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.90 min Scan# 1051

Delta R.T. 0.01 min

Lab File: BF093646.D

Acq: 14 Mar 2017 9:25

Instrument :

BNA\_M

ClientSampleId :

D-123

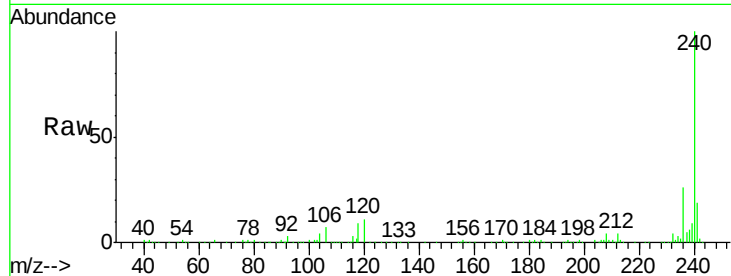
Tot Ion:240 Resp: 488421

Ion Ratio Lower Upper

240 100

120 10.5 12.9 19.3#

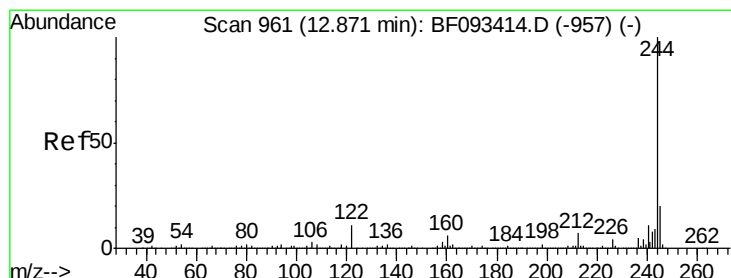
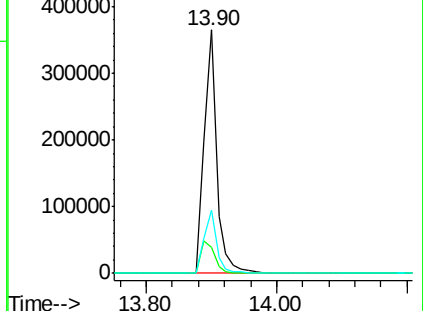
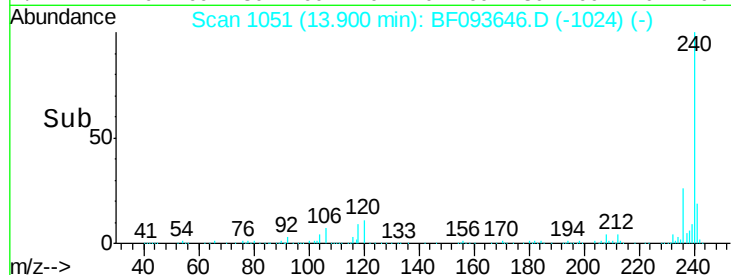
236 26.1 20.9 31.3



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Terphenyl-d14

Concen: 87.72 ng

RT: 12.84 min Scan# 958

Delta R.T. 0.01 min

Lab File: BF093646.D

Acq: 14 Mar 2017 9:25

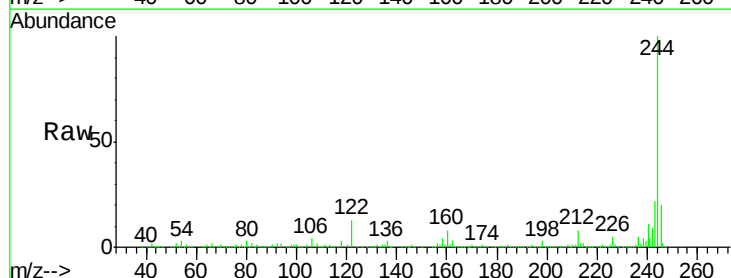
Tgt Ion:244 Resp: 1647966

Ion Ratio Lower Upper

244 100

212 8.0 6.2 9.2

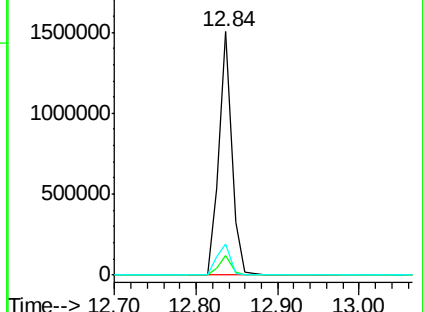
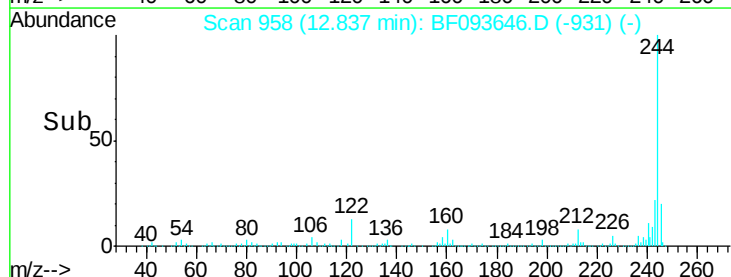
122 12.7 11.4 17.2

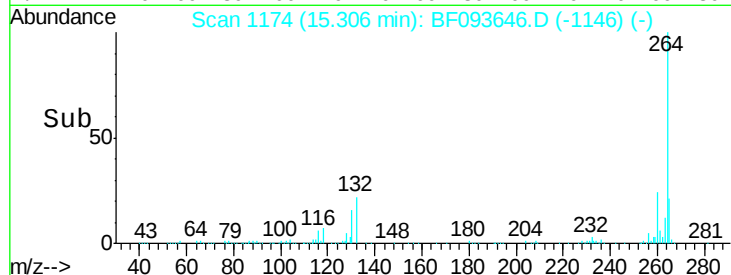
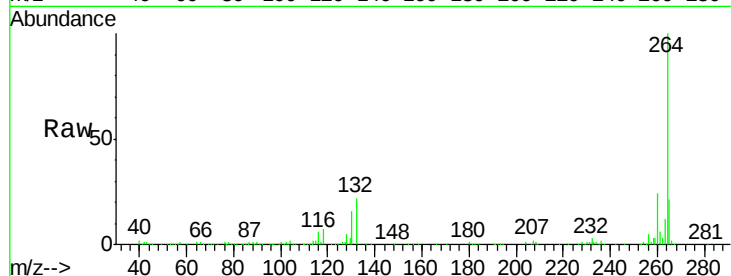
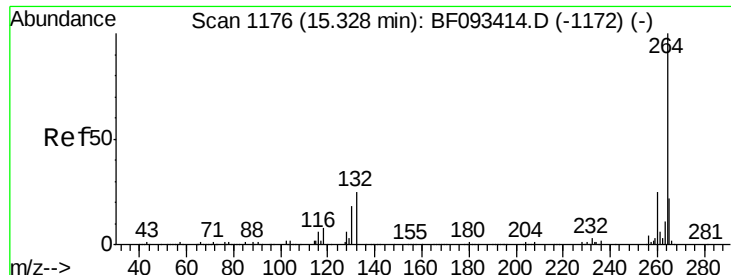


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.31 min Scan# 1174  
Delta R.T. 0.02 min  
Lab File: BF093646.D  
Acq: 14 Mar 2017 9:25

Instrument :  
BNA\_M  
ClientSampleId :  
D-123

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 342948 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 24.3  | 19.2  | 28.8   |
| 265      | 21.3  | 17.4  | 26.0   |

